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Ticagrelor alone or conventional dual antiplatelet therapy in patients with stable or acute coronary syndromes

Franzone, Anna ; McFadden, Eugène P ; Leonardi, Sergio ; Piccolo, Raffaele ; Vranckx, Pascal ; Serruys, Patrick W ; Hamm, Christian ; Steg, Philippe Gabriel ; Heg, Dik ; Branca, Mattia ; Jüni, Peter ; Windecker, Stephan ; Valgimigli, Marco

Abstract: AIMS The aim of this study was to investigate the effect of ticagrelor monotherapy after one-month dual antiplatelet therapy (DAPT) or conventional DAPT in patients with or without acute coronary syndrome (ACS) in the GLOBAL LEADERS Adjudication Sub-Study (GLASSY). **METHODS AND RESULTS** Risk estimates were expressed as rate ratios (RR) with 95% confidence intervals (CI). A total of 3,840 ACS and 3,745 stable ischaemic heart disease (SIHD) patients were included. At two years, rates of the co-primary efficacy endpoint, a composite of death, myocardial infarction, stroke or urgent target vessel revascularisation, were 7.94% in the experimental and 9.68% in the control group (RR 0.82, 95% CI: 0.66-1.01) among ACS patients and 6.31% in the experimental and 7.14% in the control group (RR 0.89, 95% CI: 0.69-1.13) among SIHD patients (p=0.63). Trends for lower and higher risk of BARC 3 or 5 bleeding with the experimental strategy in ACS (2.27% vs 3.00%, RR 0.76, 95% CI: 0.51-1.12) and SIHD (2.70% vs 1.96%, RR 1.39, 95% CI: 0.91-2.12) patients, respectively, were observed with significant interaction testing (p=0.039). A net clinical benefit endpoint, the composite of both co-primary study endpoints, favoured the experimental treatment among ACS patients only. **CONCLUSIONS** Ticagrelor monotherapy after one-month DAPT provided consistent treatment effects on ischaemic endpoints in patients with or without ACS but only the former experienced a net clinical benefit. ClinicalTrials.gov identifier: NCT03231059.

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CORONARY INTERVENTIONS

Ticagrelor alone or conventional dual antiplatelet therapy in patients with stable or acute coronary syndromes

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Aims: The aim of this study was to investigate the effect of ticagrelor monotherapy after one-month dual antiplatelet therapy (DAPT) or conventional DAPT in patients with or without acute coronary syndrome (ACS) in the GLOBAL LEADERS Adjudication Sub-Study (GLASSY).

Methods and results: Risk estimates were expressed as rate ratios (RR) with 95% confidence intervals (CI). A total of 3,840 ACS and 3,745 stable ischaemic heart disease (SIHD) patients were included. At two years, rates of the co-primary efficacy endpoint, a composite of death, myocardial infarction, stroke or urgent target vessel revascularisation, were 7.94% in the experimental and 9.68% in the control group (RR 0.82, 95% CI: 0.66-1.01) among ACS patients and 6.31% in the experimental and 7.14% in the control group (RR 0.89, 95% CI: 0.69-1.13) among SIHD patients ($p_{\text{int}}=0.63$). Trends for lower and higher risk of BARC 3 or 5 bleeding with the experimental strategy in ACS (2.27% vs 3.00%, RR 0.76, 95% CI: 0.51-1.12) and SIHD (2.70% vs 1.96%, RR 1.39, 95% CI: 0.91-2.12) patients, respectively, were observed with significant interaction testing ($p_{\text{int}}=0.039$). A net clinical benefit endpoint, the composite of both co-primary study endpoints, favoured the experimental treatment among ACS patients only.

Conclusions: Ticagrelor monotherapy after one-month DAPT provided consistent treatment effects on ischaemic endpoints in patients with or without ACS but only the former experienced a net clinical benefit. ClinicalTrials.gov identifier: NCT03231059



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